

SPLENDID EXHIBIT OF POULTRY SHOW OPENS TUESDAY

Madison Square Garden will again stage a mammoth farm yard on Tuesday morning for the opening of the thirty-first annual show of the New York Poultry and Pigeon Association. There will be over 13,000 exhibits. About 7,000 of the entries are poultry or water fowl, and the remainder will be pigeons. The doors will be open to the public at 9 o'clock on Tuesday morning when every bird will cockle or coo after the manner of its kind in a gigantic chorus, "Welcome home, boys!" It will be the "peace show" and an exceptionally prosperous one, for the entries are in excess of last year, while the presence of foreign buyers and of hundreds of beginners at poultry raising are both assured. Many hens are being cultivated more assiduously in the future than ever before, for hundreds of suburbanites believe to do so is the best way to combat the existing high prices of eggs. In the same way there are hundreds of other rural residents who intend to keep down their household bills by raising their own chickens for potpies and roasts.

All the requirements of the beginners at poultry or pigeon raising will be on exhibition at Madison Square Garden during the show, and whether the buyer is only seeking an equipment for a back yard chicken farm, or seeks the stock and fixtures for a 1,000-acre chicken ranch, his needs can be supplied. A new feature will be the maintenance of an information booth by representatives of the American Poultry Association to answer queries from beginners at poultry raising.

There will be moving picture talks on different aspects of poultry and pigeon raising every afternoon and evening in the concert hall. The talks will be by eminent Government and agricultural college experts, the latter representing the States of New Jersey, Pennsylvania and New York. The entire programme will be arranged by Prof. Ruse of Cornell University, and Prof. Allen S. Williams will introduce the speakers.

An unforeseen situation created by the number of beginners at poultry raising is that the visible stock of incubators has been exhausted. While samples of every size and model of incubator will be on view at the Garden, it is said that orders will only be accepted for future delivery. One novelty of the show will be a huge "tank" incubator with a capacity of 10,000 chicks. The eggs have been placed in it in advance and the "tank" has been timed to deliver its crop of little fluffs on Wednesday morning. This big incubator will occupy a display space near the Fourth Avenue end of the Garden.

Incubators will be exhibited by many firms, but it is unusual to have over one hundred eggs hatched at one time in one of them. Within twelve hours after breaking through the shells the little chickens are placed in the brooders and thereafter they play an active part at the show. Hundreds are sold during the show and are taken home by suburban residents as the nucleus of a poultry plant. Young chicks are very luscious, and are carried home in a pasteboard box that suggests a dozen fried oysters.

Homer pigeons will be very prominent in the pigeon displays. Besides the many classes for show, homers and exhibition homers there will be twenty classes for birds with attested flight records guaranteed by the American Federation of Homer Pigeons. These begin with a class for cock birds with a one hundred mile record and for hens with a similar distance record, and increase by raises of fifty miles to the maximum distances of 500 and 1,000 mile flights.

Birds that have been in active service with the Army Signal Corps during the war, both at the military pigeonies in this country and on the firing lines abroad, will be among the entries in the classes for record homers. August de Conte of Rosebank, Staten Island, who is the inventor of devices used by the army for carrying messenger pigeons and of coops used by the Government, will make a special display of his models and birds. During the show he will fly messengers daily from the Garden with messages to the State House, to the Governor's office, to the military lofts on Governors Island.

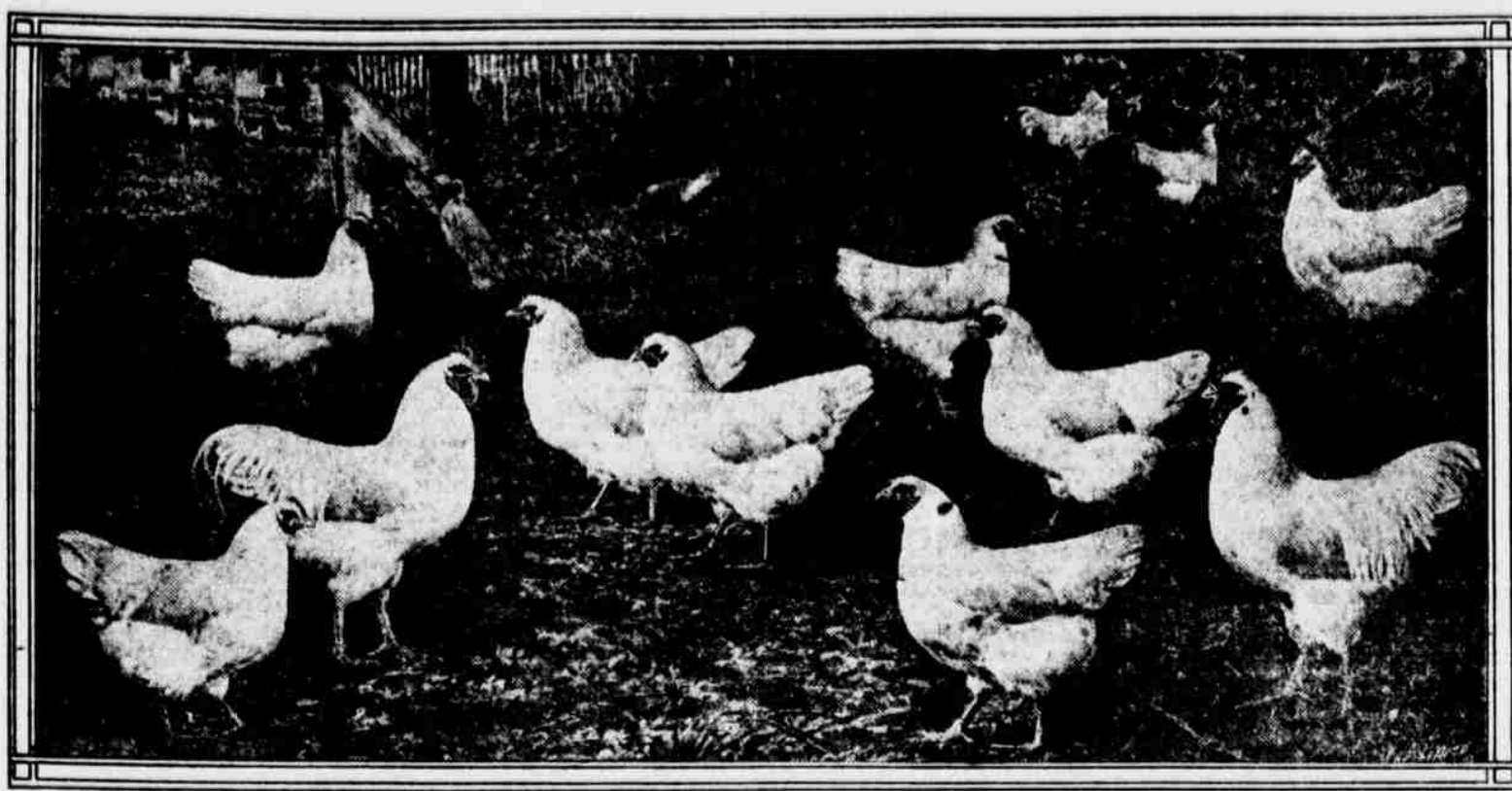
A portable pigeon coop on wheels such as was used during the war on the battle fronts will be on exhibition in Mr. de Conte's charge. It is camouflaged in stripes and is a specimen of the coops that were hauled by motor trucks from place to place as our soldiers advanced. Throughout the war through the cooperation of the American Federation of Homer Pigeon fanciers and other breeders 5,000 young pigeons were sent to France each month. These young birds, which technically are known by the undignified name of "squawkers," were at once placed among the portable pigeon lofts and each became thereafter part and parcel of its home, to which it would return at full speed when released with a message. The pigeons were taken into the air by aviators as well as to the trenches, and one of Mr. de Conte's exhibits will be the ingenious appliance that held the pigeons for the airmen.

At the main entrance of the Garden will be a display of ornamental birds that will include many rare ornithological specimens, beautiful waterfowl, game birds, such as all varieties of pheasants, and peacocks. These will be flanked by display cages of different varieties of poultry and pigeons, each containing twenty-five selected birds. Back of these displays will be the rows upon rows of single exhibits of poultry, the native American breeds, the Plymouth Rocks, Wyandottes and Rhode Island Reds having the places of honor nearest the Madison Avenue entrance. In addition to the main floor will be the displays of exhibition and pit game, and also more than 300 entries of exhibition pens each of which consists of a cock and four hens.

The bantam varieties and the pigeon displays will occupy the two balconies which will be built out by extensions over the main floor. The concert hall annex to the right of the Madison Avenue entrance will be used for the special displays of the Government and agricultural colleges, and, as has been stated, the motion picture talks and lectures will be conducted in the concert hall.

To concentrate interest in the talks Tuesday, January 21, will be Manhattan and suburban day; January 22, Long Island day; January 23, New Jersey day; January 24, Connecticut day; and the closing sessions on January 25, New York State day.

Early hatching, with proper feeding and management, insures early egg production. If possible, mark the pullets that lay in the fall and use them in the breeding pen for the following spring.



First and second prize pens White Plymouth Rocks, at Madison Square Garden Poultry Show, 1918; bred and owned by Wilburtha Poultry Farms.

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Mustard will help to get eggs—a teaspoonful to every six hens, mixed with the food.

When eggs are received by mail or express for hatching be sure to set them aside for a full day's rest before putting them under the hens or in the incubators.

Be sure that the male at the head of the flock is pure bred. Pure bred poultry means uniformity of products. Uniformity of products means increased profits if products are properly marketed.

Given the same care and feed, pure bred fowls make a greater profit than mongrels.

Eggs saved for hatching should not be subjected to high or low temperatures. Best results are usually obtained by keeping them in a moderately cool place—about 59 degrees Fahrenheit. It is not advisable to hold hatching eggs longer than ten days or two weeks.

February, March and April are the best months for hatching.

FUL-O-PEP.

Albert Angell will be in charge of the Quaker Oats exhibit at the Poultry Show, where a full line of the Ful-O-Pep feeds will be shown.

Ful-O-Pep, it is claimed, is of the same nature as the feed fowls get during the summer and therefore speeds up winter laying.

Angell is full of information regarding the feeding of poultry and will be glad to answer all questions of those who visit the Quaker Oats exhibit.

THE CHAMPION WYANDOTTE HEN.

At the international egg laying contest which closed on November 1 at Storrs, Conn., the leading hen was College Queen, a white Wyandotte, owned by Obed C. Knight of Rhode Island. This hen laid 298 eggs in 364 days. That she was a constant and persistent performer is shown by her record.

She produced 158 of her 298 eggs during the months of November, December, January, August, September and October, which, as every poultry raiser knows, are the months when egg production is the lowest and when egg prices are the highest. She produced 140 of her 298 eggs during the months of February, March, April, May, June and July, when eggs are the lowest in price. Her lowest monthly production occurred in April. The following is

her production by months: November, 24; December, 28; January, 30; February, 23; March, 28; April, 22; May, 28; June, 25; July, 24; August, 26; September, 26; October, 24. The pen of ten birds laid 2,179 eggs, with fifty-seven of these eggs laid outside of the trap nest. College Queen may have been responsible for some of these in addition to her official record of 298. This pen of White Wyandottes ranked No. 2 out of 100 hens. The Pure bred poultry means uniformity of products. Uniformity of products means increased profits if products are properly marketed.

SALT AND SULPHUR AS FERTILIZERS.

Although common salt has been used as a fertilizer on certain crops in Europe, the College of Agriculture states that its use is inadvisable because of the uncertainty of results and because acid soils, upon which salt will not act as a fertilizer, are common in New York State.

On account of the shortage of potash for fertilizer the question has been raised whether common salt cannot be used as a substitute. The most extensive experiments in this country show that salt may take the place of potash to a limited extent for certain crops and on certain soils. Mangels, turnips and radishes may be benefited by its use. The staple crops, including potatoes, wheat and corn, would probably not be greatly benefited. However, good results are not to be expected on all soils. One unfavorable condition is acidity of the soil, and the effect of salt on such soils would be to aggravate this sour condition.

In western New York, where salt was cheap, it was used in various lots, sprinkled lightly over a calcareous soil that was kept well limed. Lame at that time was also cheap, but the prices received for the crops were much less than the prices now received by growers.

The soil was somewhat heavy and had been lightened by heavy applications of manure for several years and vegetable refuse of all kinds. It was well drained by a series of tile drains and open ditches.

On this land crops of gladioli, zinnias, lilies, corn and various vegetables and flowering plants were grown.

Sulphur was sometimes used, sprinkled lightly over the soil. These materials were cheap, and aside from whatever fertilizing value they had it was thought they helped to keep down insects and disease. The salt was applied in the autumn, after the fall ploughing. In the spring the land was

ploughed again, the sulphur applied, after which it was broken up with a disc harrow, followed by a spike tooth harrow. It was very productive, and although cropped intensively for years the crops were free from both insects and disease and the colors of the flowers always brilliant.

Sulphur is now used with good results on alfalfa land and will no doubt be found valuable for other crops.

Dry earth is a good disinfectant for poultry houses.

LOSS CAUSED BY WEEDS.

The importance of keeping the garden free from weeds may be under-

Control of Bacteria in Milking Machines is Bulletin No. 459, New York Agricultural Experiment Station, Geneva, just issued.

Animal oils for animal materials. There's nothing better than good neatfoot oil for harness leathers. Mineral oils may have a damaging effect.

MORE TRACTOR SCHOOLS.

So successful were the tractor schools held at the New York State College of Agriculture at Ithaca last year that plans are being made for two more schools at the college this winter.

The first school, which will open on Jan. 13 and continue through Feb. 1, is intended for beginners in farm tractor operation, while the second of the schools, the dates of which are Feb. 17 to March 8 inclusive, is for persons who have had experience.

Each course will be limited to twenty-four persons and for that reason the college authorities advise any who may desire to enter to send in their applications at once. It is desired to have as students only those who can and will profit most by the instruction. Only the applications of those who will actually be concerned with the care and operation of tractors the coming summer can be considered.

The tuition is free to residents of this State, though there will be a laboratory fee of \$4 to pay for the costs of materials used. A descriptive circular and application blank will be sent on request from the department of rural engineering, State College of Agriculture, Ithaca, N. Y.

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The importance of keeping the garden free from weeds may be under-

stood from the fact that of the principal crops of the United States it is estimated that weeds reduce the yield of (and grain from 5 to 15 per cent.

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When The Curtain Goes Up At The Poultry Show

FUL-O-PEP

POULTRY FEED EXHIBIT

At Madison Square Gardens, N. Y., Jan. 21 to 25

Every poultry raiser, amateur or expert, cannot afford to miss this interesting and instructive exhibit. Here you will see the result of modern methods of feeding and care of poultry. You will see the kind of equipment best suited for the city dweller who contemplates raising poultry in his back yard. You will see some of the splendid specimens of poultry—birds whose history is mighty interesting to

EVERY poultryman. Our poultry expert will be here—he will be glad to give you any information relative to any of your poultry problems.

But most interesting of all will be the facts and figures showing the wonderful results that have been obtained with The Quaker Oats Company's line of FUL-O-PEP POULTRY FEEDS.

You will be especially interested in learning

How You Can Make Your Hens Lay in Winter

as well as in Summer by feeding them FUL-O-PEP DRY MASH—the wonderful egg-producing feed that poultrymen everywhere tell us is the greatest egg-producing feed ever offered to the poultry raiser. We will show you how and why FUL-O-PEP DRY MASH keeps your hens laying in the Winter as well as in Summer.

FUL-O-PEP DRY MASH is first, last and all the time an egg-producing feed—it is the raw material from which an egg is made. It comes as near to the kind of feed that the hen picks up in the Springtime when her egg production is highest, as it is possible for modern experience and science to produce. Try feeding FUL-O-PEP DRY MASH to your hens and you will get eggs in large numbers. We GUARANTEE it.

Ask too, about our FUL-O-PEP GROWING MASH—the ideal growing feed for young chicks. During the past season thousands of poultry raisers have proven that with this feed they lose fewer chicks, get faster, healthier growth, develop better early laying pullets, than they have ever been able to get with any other feeds.

If you are interested in poultry, don't fail to visit our exhibit at the Poultry Show, but if you can't come, don't forget that for successful poultry raising FUL-O-PEP POULTRY FEEDS can't be beat.

WE GUARANTEE THEM. Remember FUL-O-PEP DRY MASH for eggs and FUL-O-PEP GROWING MASH for growing chicks. Your dealer can supply you.

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If you will send us your name and address, we will gladly mail you free and postpaid, our latest Poultry Calendar Book. This book was written by our poultry expert and experienced poultry raisers tell us it is the best book on the care and feeding of poultry ever produced. This valuable book tells you nearly everything you want to know about poultry. Write for it today.

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Hatching Eggs from Utility Matings	\$10.00	Hatching Eggs from Utility Matings	\$12.00
100 Eggs	\$10.00	100 Eggs	\$12.00
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25 Eggs	\$2.50	25 Eggs	\$3.00
10 Eggs	\$1.00	10 Eggs	\$1.20
5 Eggs	\$0.50	5 Eggs	\$0.60
2 Eggs	\$0.20	2 Eggs	\$0.25
1 Egg	\$0.10	1 Egg	\$0.12

S. C. Rhode Island Reds		White Plymouth Rocks	
Hatching Eggs from Utility Matings	\$12.50	Hatching Eggs from Utility Matings	\$12.00
100 Eggs	\$12.50	100 Eggs	\$12.00
50 Eggs	\$6.25	50 Eggs	\$6.00
25 Eggs	\$3.12	25 Eggs	\$3.00
10 Eggs	\$1.25	10 Eggs	\$1.20
5 Eggs	\$0.62	5 Eggs	\$0.60
2 Eggs	\$0.25	2 Eggs	\$0.25
1 Egg	\$0.12	1 Egg	\$0.12

Hatching Eggs from Exhibition Matings from any of our breeds \$5. and \$10 per 15 eggs.

Baby Chicks from Exhibition Matings from any of our breeds 75c. and \$1.50 each.

We guarantee 90 per cent. fertility in all our Hatching Eggs and the safe arrival of every Baby Chick.

All our pens are mated. We can ship Hatching Eggs on short notice, and Baby Chicks after March 1st. Orders booked on receipt of 10 per cent. of the purchase price.

Order direct from this advertisement and make sure of getting Hatching Eggs and Baby Chicks on the date desired.

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POULTRY SHOW

MADISON SQUARE GARDEN

JANUARY 21 to 25

An exceptional exhibition of Standard Fowls, Ornamental Fowls, Game Birds, Rare Water Fowls, United States Government Exhibit of Poultry and Homer Pigeons

Motion Pictures and talks by experts

Only New York Show this year.

Every day and Evening

Admission, 75 Cents.